



Mike Strain, DVM
COMMISSIONER

Metrology Laboratory



THE MEASUREMENT INSIDER

Volume: 01
Issue: 02

June 2024



UPCOMING HOLIDAYS AND LAB CLOSURES



Juneteenth National Independence Day

Wed, June 19th - Lab Closed

Independence Day

Thurs, July 4th - Lab Closed

Lab Services:

In our Metrology Lab, we calibrate

- Weights
- Test Measures
- J-Provers

for business owners, service techs, farmers, and industry personnel who deal with weighing devices for mass and volume.

Businesses we serve include scale companies, fuel companies, and other businesses that rely upon precise measurements.



Common Nonconformities with Mass Field Standards (From NIST HB 105-1)

- rust or other foreign materials on the weight
- weights made of brass or other inappropriate materials
- more than one adjustment cavity
- adjustment cavity located on the bottom of the weight
- lettering that lies above the surface of the weight
- screw / threaded plugs



Rejection Policy

If a weight or volumetric measure is condemned, a red rejection tag will be placed on the artifact. A formal rejection letter will also be provided to the customer.

METROLOGY FACTS & TERMS TO KNOW

k Factor - *k* is also called a coverage factor. It is a numerical factor used as a multiplier of the combined 'standard uncertainty' in order to obtain an 'expanded uncertainty'.

NIST - National Institute of Standards and Technology. NIST is an agency of the US Department of Commerce whose mission is to promote American innovation and industrial competitiveness.

Relative Humidity - the amount of water vapor actually in the air, expressed as a percentage of the maximum amount of water vapor the air can hold at the same temperature.

ISO 17025 - the international standard that sets out requirements for the competence, impartiality, and consistent operation of laboratories.

Air Buoyancy - the upward force exerted by the air on an object that displaces it.

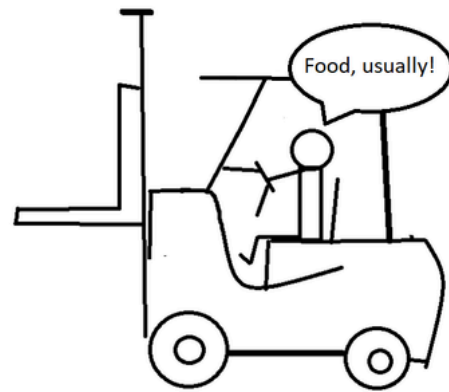
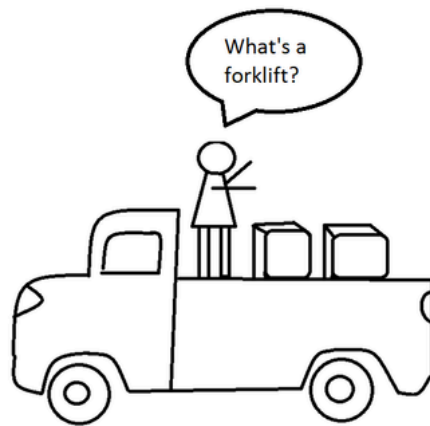
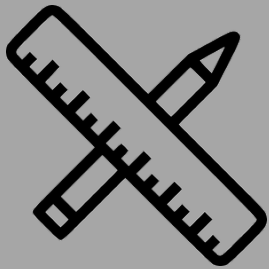
THE MEASUREMENT INSIDER

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Issue: 02



CALIBRATION CARTOONS PT. 1

By Jennifer Adair
Metrologist



JA

PLAN ON SHIPPING YOUR ITEMS TO OUR LAB?



Please provide account number and/or return shipping label if using FedEx or UPS

You must create a Bill of Lading to accompany the pickup. Please send it to metrologylab@ldaf.state.la.us so that we may give it to the driver.

You must schedule your own pick up after being notified that weights/measures are ready.

Deliveries and pickups may be scheduled between the hours of 8:00 a.m. and 3:00 p.m. on your scheduled day.

Pallets are not to be heavier than 2500 lb.

SCHEDULING A CALIBRATION

For all mass and volumetric calibrations, a calibration request form must be filled out to get you scheduled.

[Click Here For Calibration Request Form](#)

<https://www.ldaf.la.gov> > Business Resources > Weights & Measures > Calibration & Metrology Services > Request a Calibration





The Doorstop

By Paul Floyd, LDAF Director of Weights and Measures

My boss, back when I had important stuff to do, would always tell us, “you tell your story” and stuff like that. So now that I have more time on my hands, that’s what I plan to do. Let’s start back in the glory days...

There are some things that I can’t quite remember from my first days, but I’ll never forget how nervous I was when I showed up for my first certification. I was poured as a 10# Class F Field Standards, and I couldn’t wait to be certified. It was dark for a while, but I heard some commotion going on around me. I could hear talking and walking around and everything felt just right. The temperature was an even 60°F, and the relative humidity right at 50%. I knew that my time to shine was coming soon. A beam of light broke through the shipping box, and I could finally see the place of my dreams; the white painted walls, the big blue lifter robot, the giant yellow sky crane, and all of the things like me! There were square ones, round ones, small ones, big ones, shiny ones, gold ones...it was incredible. If I could just keep myself together, I could be one of them.

My turn finally came, and I was lifted off the ground and moved around quite a bit. I was worried a little about what I’ve heard called, “being adjusted”, but I was ready, nonetheless. I knew I could be something ordinary, a standard, just like all the others. The whole thing happened pretty quick, but I got Certified! I had a certificate number LA 44-18, and I was traceable....legal...legit and all the rest. I was known as LA10*. The only one of my kind; thank you very much!

I was on top of the world. I got assigned to a weights and measures inspector, and we went out and ruled the world. Put me on a scale, and I owned it. The indicator better read 10.00 lb or somebody’s in trouble. Increasing load tests, shift rests, decreasing load test...we could do it all. Me and my inspector made the rounds for years; the best years of my life. I went back to the cool lab every year, but I didn’t have the same feeling each time. Over the years, I got called names like “not to specifications” or “rusty” or “rejected”. That’s not me. I’m LA10*! I want to be ordinary. I want to be needed. It’s only been a few years but now I’m in charge of this door.

You can’t see my name anymore. I don’t feel as cool anymore because I’m too rusty and old and I lost my certification. Now instead of my cool name of LA10*, I’m just a doorstop. I’m not sure if I’m supposed to keep the door open or closed. An inspector will pick me up from time to time, but it’s mostly related to this door. I don’t get to spend a lot of time with them.

The reason I wanted to share this “fall from grace” story with you is because I don’t want others to share my fate. Please take care of your field standards. Treat them as the important team member they are!

Sincerely,

LA10*



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Lab Fee Schedule

Metrology Fees for Calibration Services	Fee (Per item calibrated)	Adjustment Fee (Per item adjusted)
Weights up to and including 10 lb or 5 kg	\$7.00	\$10.00
Weights over 10 lb or 5 kg up to and including 50 lb or 25 kg	\$10.00	\$10.00
Weights 250 lb up to and including 1000 lb or 500 kg	\$25.00	\$10.00
Weights over 1000 lb or 500 kg	\$50.00	\$10.00
5 gal test measures and provers	\$30.00	N/A

Contact Information

Louisiana Metrology Lab
5825 Florida Blvd
Baton Rouge, Louisiana
70806

Hours of Operation

Mon - Fri
8 am to 4:30 pm

Lab Phone

225.922.1379

Email

metrologylab@ldaf.state.la.us

Certificate of Metrological Traceability

LDAF's Weights and Measures Division recently received a two-year Certificate of Metrological Traceability from the National Institute of Standards and Technology (NIST) which ensures that all calibrations performed by the laboratory are traceable to the International System of Units through NIST and that the lab is also competent, impartial, and independent. The State of Louisiana voluntarily participates in this formal evaluation process for the recognition of metrological traceability.